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Application No.	Applicant(s)	
10/709.573	KANAKASABAPATHY FT AI	
Examiner	Art Unit	
Asok K. Sarkar	2891	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 6/30/2006</u> .		
2. The allowed claim(s) is/are <u>9-14.</u>		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some* c) None of the:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
<ul> <li>5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> <li>6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ul>		
6. Interview Summ Paper No./Mail 08), 7. Examiner's Ame	ary (PTO-413), Date endment/Comment	
	Examiner  Asok K. Sarkar  Pars on the cover sheet with the (OR REMAINS) CLOSED in this or other appropriate communication is subject and MPEP 1308.  Page 1308.  P	Examiner  Asok K. Sarkar  Asok K. Sarkar  Asok K. Sarkar  Asok K. Sarkar  Examiner  Examiner  Asok K. Sarkar  Examiner  Examiner  Examiner  Examiner  Art Unit  2891  Examiner  Examiner

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## **DETAILED ACTION**

## Response to Amendment

1. Applicant's explanation of the instant invention in pointing the difference with the cited prior art was found to be persuasive.

## Allowable Subject Matter

- 2. Claims 9 14 are now allowed.
- 3. The following is an examiner's statement of reasons for allowance:

Claims 9 – 14 recite, inter alia, a cap structure for a magnetic random access memory (MRAM) device comprising a first cap laver formed over a magnetic tunnel junction (MTJ) stack laver, an etch stop laver formed over said first cap laver, said etch stop laver comprising a nonmagnetic electrically conductive material, a second cap laver formed over said etch stop layer and a hardmask laver formed over said second cap layer, wherein said etch stop layer is selected from a material such that an etch chemistry used for removing both said hardmask layer and said second cap laver has selectivity against etching said etch stop layer material. The inventive part is the etch stop laver comprising a nonmagnetic electrically conductive material. Additionally, the art of record does not disclose or anticipate the above limitation in combination with other claim elements nor would it be obvious to modify the art of record so as to form a device including the above limitation.

## Conclusion

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Asok K. Sarkar whose telephone number is 571 272 1970. The examiner can normally be reached on Monday - Friday (8 AM- 5 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William B. Baumeister can be reached on 571 272 1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

As The Universe Southern Asok K. Sarkar July 17, 2006

**Primary Examiner**